

TEST AND OPERATIONS SUPPORT CONTRACT

ATTACHMENT J-04

GLOSSARY AND ACRONYMS

GLOSSARY	
Term/Phrase	Description
ACCEPTANCE	The act of an authorized representative of the Government by which the Government, for itself or as an agent of another, assumes ownership of existing identified supplies tendered or approves specific services rendered as partial or complete performance of the contract.
ACCEPTANCE DATA PACKAGE	The specific data in a single package which contains information pertinent to acceptance, and provides a verified status, including the as-built configuration (software or hardware) to the using organization. The ADP is prepared as part of the hardware or software acceptance/delivery criteria and maintained throughout the hardware or software life cycle after government acceptance, including processing; testing; launch on-orbit and post-landing processing; and maintenance, modification, and refurbishment activities.
ACCESS CONTROL	Limiting access to hardware, equipment, information or operations for the purposes of maintaining one or more of the following: safety, quality, configuration and item integrity.
ACCESS PRIVILEGES	Capability to utilize electronic data systems
ACCREDITATION	The official management decision given by a senior agency official to authorize operation of an information system and to explicitly accept the risk to agency operations (including mission, functions, image, or reputation), agency assets, or individuals, based on the implementation of an agreed-upon set of criteria.
AD HOC QUERY	An unplanned, customized, real-time data inquiry
AGENCY (uppercase 'A')	National Aeronautics and Space Administration
ANOMALY	An unexpected event, hardware or software damage, a departure from past experience, established procedures or performance, or a deviation of system, subsystem, hardware or software performance outside certified design/performance specification limits.
ASSOCIATE CONTRACTOR AGREEMENT	A documented mutual understanding between two or more contractors that enables support from one to the other or working together to meet a common objective and requiring no Government involvement.
AVAILABILITY	The probability that an item is in an operable and committable state when called for at an unknown (random) time.
BASELINE	The defined and approved end-item configuration that is documented by drawings, specifications, and/or other technical documents. A reference for program and project planning and a point of departure for change control.
BENCHSTOCK	Low-cost, repetitively used consumption type supplies, and repair parts, established at or near points of consumption/use to ensure continuous

	and uninterrupted operations.
BI-DIRECTIONAL DIGITAL DATA SHARING	The transfer of information in electronic form between systems without the need for conversion.
BIOLOGICAL HAZARD, BIO-HAZARD	Biological substances that pose a threat to the health of living organisms, primarily that of humans. This can include medical waste or samples of a microorganism, virus or toxin (from a biological source) that can impact human health. The term and its associated symbol used as a warning so those potentially exposed to the substance will know to take precautions.
BIO-SAFETY LEVEL	The United States' Centers for Disease Control and Prevention (CDC) categorizes various diseases in levels of biohazard, Level 1 being minimum risk and Level 4 being extreme risk. Laboratories and other facilities are categorized as BSL (Bio-safety Level) 1-4.
CAPITALIZED PROPERTY (Government)	Individual items of Property, Plant, and Equipment (PP&E) that have an acquisition cost of \$5,000 or more, or have an estimated useful life of two years or more, and are not intended for sale in the ordinary course of operations, and are acquired or constructed with the intention of being used or available for use.
CARGO	Cargo includes Portable Equipment, Payloads and Cargo (PEPC), ISS hardware or Utilization experiments
CENTER (uppercase 'C')	Kennedy Space Center
CERTIFICATION	The formal written act whereby a responsible official attests to the satisfactory accomplishment of specified activities and authorizes the affected hardware/software, procedures, facilities, and/or personnel for specified usage.
CLOSE CALL	A mishap resulting in no personal injury or illness, personal injury or illness requiring only first aid, and/or minor damage (of less than \$1,000) but with potential for causing a more serious mishap or negative mission impact. Reference NPR 8621.1
CLOSED-LOOP PROCESS	A method of tracking requirements, from development through implementation and verification, to ensure satisfaction and reporting of the entire set of requirements for any given operation.
CLOSEOUT	The process of inspecting and securing hardware, usually flight hardware, to ensure no foreign material, damage or out-of-configuration condition exists prior to covering an area in preparation for testing or flight.
COMMAND MONITORING AND DATA SYSTEM	A system used to monitor and control the set points of laboratory equipment at the SSPF and SLSL.
COMPATIBILITY (Electromagnetic)	The ability of two or more electronic systems to operate in their intended environment without their performance being adversely affected by electromagnetic fields.
COMPLIANCE	The act or process of satisfying requirements

COMPONENT	A part, device, structure, or combination, usually self-contained, that performs a distinctive function in the operations of the overall equipment; e.g., cryogenic pump, filter assembly, power supply, or transmitter.
COMPOSITE OVERWRAPPED PRESSURE VESSEL	A vessel consisting of a thin, non-structural liner wrapped with a structural fiber composite, designed to hold fluid under pressure.
CONFIGURATION CONTROL	The process for documenting a baseline and any subsequent changes.
CONFIGURATION MANAGEMENT	A process that establishes and maintains consistency of a product's attributes with its requirements and product configuration information throughout the product's life cycle.
CONFIGURATION MANAGEMENT DATA SYSTEM	A computer data system for maintaining the design configuration and change tracking for ground support facilities, systems, and equipment end-items.
"CONSISTENT WITH"	The contractor has flexibility to develop and apply an approach, but the approach must meet the intent of the reference document.
CONSTRAINT	Any technical or operational limiting factor that would prohibit performance of an activity, invalidate a portion of a work authorization document (sequence or step), or could cause personal injury or equipment damage if not resolved satisfactorily before the start of the work sequence or step.
CONSTRUCTION OF FACILITIES	NASA's capital investment program for facility projects with estimated cost of greater than \$1,000,000 per project. CoF projects are approved by NASA Headquarters and require Congressional approval.
CONTINGENCY	A potential off-nominal operational condition that require actions (e.g., preplanned troubleshooting, hardware safing, launch scrub or recycle, or crew evacuation). Also, a mishap, mission failure, incident, or high-visibility close call that causes or may cause a major impact to spaceflight operations or prevents accomplishment of a primary mission objective.
CRITICAL	The categorization based on the worst case potential effect of failure (loss of function or inadvertent operation), that could result in loss of life, loss of vehicle, or damage to a vehicle systems.
CRITICAL ITEM	Any article or material which if defective can cause loss of life, loss of vehicle, or result in a hazardous or unsafe conditions or make a system non-functional.
CRITICAL ITEMS LIST	A listing comprised of critical items identified as a result of performing the Failure Modes and Effects Analysis.
CRITICAL SKILLS	A specific ability that is required for the safe execution or performance of a unique task, requiring specialized training and certification.
COMMERCIAL-OFF-THE-SHELF Software	Software that is commercially available and maintained by a vendor.

DAMAGE ASSESSMENT and RECOVERY TEAM	A team of personnel to replace the Ride-Out Team and continue the recovery effort after a tropical storm or hurricane. The team performs tasks necessary to restore the infrastructure, perform damage assessment, sustain the recovery effort, and safe hazardous situations.
DATA DELIVERY IN-PLACE	An IT-specific term referring to the capability to provide access to data in the contractor's native system(s). It does not refer to data specifically identified as a contract deliverable in the PWS, including those items identified in Appendix 1.
DEMILITARIZATION/ DEMIL	The act of eliminating the functional capabilities and inherent military design features from Government personal property. Methods and degree range from removal and destruction of critical features to total destruction by cutting, crushing, shredding, melting, burning, etc. DEMIL is required to prevent property from being used for its originally intended purpose and to prevent the release of inherent design information that could be used against the United States. DEMIL applies to material in both serviceable and unserviceable condition.
DEPOT-LEVEL MAINTENANCE	Includes the repair, fabrication, manufacture, rebuilding, assembly overhaul, modification, refurbishment, rebuilding, test, analysis, repair-process design, in-service engineering, upgrade, painting and disposal of parts, assemblies, subassemblies, software, components, or end items that require shop facilities, tooling, support equipment, and/or personnel of higher technical skills, or processes beyond the organizational level capability.
DESTOW	To remove PEPC/FCE, Utilization experiments or ISS hardware from spacecraft.
DOCUMENT CENTER	A location to provide onsite access for drawings and technical documentation in electronic and hard copy formats.
DOCUMENT RELEASE AUTHORIZATION	A process to release engineering documentation into a central repository in accordance with KNPR 8830.1 and other Center processes.
DOCUMENTED	The condition of being recorded in written or electronic form.
DOCUMENTATION	Information and its supporting medium; e.g., records, specifications, drawings, reports, standards and work documents. The medium may be paper, photography, digital files, optical discs, magnetic, electronic storage or a combination.
e533 FLAT FILE	A format specific machine readable electronic file of NASA Form 533 reportable data (See DRs 1-2.5 and 1-2.6).
ELECTRONIC INFORMATION	Any data and information, except for limited-rights data or restricted software that is processed, managed, accessed or stored on an IT system in the performance of the contract.
EQUIPMENT	A tangible asset that is functionally complete for its intended purpose, durable, nonexpendable. Equipment is not intended for sale, and does not ordinarily lose its identity or become a component part of another article when put into use.

EXCESS	A classification assigned to government property for which there is no requirement for future use. Also a process for property disposal.
EXPENDABLES	Property that may be consumed in use or loses its identity in use and may be dropped from stock record accounts when it is issued or used.
EXPERIMENT/SCIENCE PAYLOAD	A collection of equipment (hardware, software, specimens, etc.) and associated processes that are used to achieve specific scientific, technological, or commercial objectives. The scientific research and development components being flown on a particular mission, within or on a payload.
EXPRESS LOGISTICS CARRIER	An external platform attached to the ISS which is utilized to warehouse ISS spares and external payloads. The external payloads mounted on the ELC are active.
FACILITY-BASED SYSTEMS	Built-in equipment and large substantially affixed equipment normally acquired and installed as part of a facility project. Typically includes equipment or systems required to make a facility useful and operable. The removal of such equipment would impair the usefulness, safety, or environment of the facility and would involve substantial cost because of the special or unique services required for the initial installation. Examples of TOSC facility-based systems include VAB 325-ton bridge crane, launch pad main flame deflector and VAB and SSPF high-bay powered doors.
FAILURE ANALYSIS	The effort of physical inspections, test (destructive or nondestructive), and/or analytical processes required to determine the failure modes and causes.
FAILURE MODES AND EFFECTS ANALYSIS	The analysis of the potential failure modes in a system to determine effects on system operation, personnel safety, and flight hardware; and to classify each failure mode according to severity.
FLIGHT CREW EQUIPMENT	This includes an assortment of Government Furnished Equipment (GFE) including food, survival equipment, photography equipment, exercise equipment, waste and hygiene supplies, clothing, etc.
FLIGHT-LIKE STATE	Parts maintained visibly clean, appropriately handled and transported, and maintained in good working condition using best shop practices in an environmentally controlled atmosphere.
FOREIGN OBJECT DEBRIS/DAMAGE	Debris is a substance or article alien to a vehicle or system, which could potentially cause damage; Damage is any impairment attributed to a foreign object which may degrade the product's required safety and/or performance characteristics.
GENERAL PURPOSE VEHICLES	Any vehicles required beyond what the Government provides. Examples include transportation for the purpose of personnel, equipment, and materials movement such as sedans, light trucks, trailers, and tankers not specifically designed for application at the installation.
GOVERNMENT (uppercase 'G')	NASA at Kennedy Space Center

GOVERNMENT <i>(lowercase 'g')</i>	Any government entity except NASA Kennedy Space Center.
GOVERNMENT FISCAL YEAR	The US Government accounting year for appropriations which is the 12 month period starting October 1st and ending September 30th.
GOVERNMENT-FURNISHED PROPERTY	Property in the possession of, or directly acquired by, the Government and subsequently made available to the contractor.
GOVERNMENT-FURNISHED SERVICES	Services directly acquired by the Government and subsequently made available to the contractor.
GOVERNMENT-INDUSTRY DATA EXCHANGE PROGRAM	A cooperative data exchange among Government and industry participants for sharing and use of engineering and failure data. GIDEP provides a means to exchange a variety of data during the acquisition process and life cycle of systems and equipment that can be utilized to improve reliability and reduce the cost of ownership. Includes the use of GIDEP ALERT and GIDEP SAFE-ALERT Reports.
GOVERNMENT-LED	Any operation or activity where the Government performs as 'task leader' and a significant portion of the work, including procedure development, is performed by Government personnel. A task leader is responsible for integrating, coordinating, and directing team members in the accomplishment of a task.
GOVERNMENT PROPERTY	All property owned or leased by the Government. Government property includes both Government-furnished property and contractor-acquired property. This includes installation-accountable and contractor-accountable property as pursuant to NFS 1852.245-71 and FAR 52.245-1, respectively.
GROUND SUPPORT EQUIPMENT	Non-flight support equipment with a physical or functional interface with flight hardware that is routinely required for the handling, servicing, inspection, testing, maintenance, alignment, adjustment, checkout, repair, and overhaul of the flight hardware.
GROUND SYSTEMS	Systems used to process or test flight hardware during ground processing, including unique facility-based systems, ground support equipment, and flight hardware special test equipment.
HANDOVER	The process for transferring ownership (DD250) or custody and responsibility (DD1149) of 'assets' between the government and contractors or between contractors.
HAZARD	The presence of a potential risk situation which may result in injury, loss of life, hardware damage, loss of system, or loss of mission.
HAZARDOUS OPERATION	Any operation involving materials or equipment that has a high potential to result in loss of life, serious injury to personnel, or damage to systems, equipment or facilities.
HAZARDOUS WASTES	Any waste or combination of wastes that requires special management in waste handling, processing, and disposal for the protection of human health or the environment.

HIGH PRESSURE GAS SERVICING	High pressure gas servicing refers to filling of pressure vessels to a pressure greater than 3,000 psi.
HIGHLY-SPECIALIZED INFORMATION TECHNOLOGY	Highly-specialized IT is a part of, internal to, or embedded in a mission platform. Representative examples of highly-specialized IT include: avionics software, real-time control systems, onboard processors, spacecraft instrumentation software, human physiology monitoring systems, ground support environment, experiment simulators, Launch Control System and launch cameras.
HIGH-VISIBILITY CLOSE CALLS	Those particular mishaps or close calls, regardless of the amount of property damage or personnel injury, that the senior NASA management judges to possess a high degree of programmatic impact or public, media, or political interest including, but not limited to, mishaps and close calls that impact flight hardware, flight software, or completion of critical mission milestones.
HOST ROLE SERVICES	Pre-defined contract support provided to customers. For ISS, includes ISS sponsored or International Partner customers. For LSP includes spacecraft customers.
HYPERGOLIC PROPELLANT	Certain rocket fuels and oxidizers that ignite spontaneously when the two components come in contact without an external ignition source. Certain fuels can also be a monopropellant, utilizing a stationary catalyst.
INDEFINITE-DELIVERY/ INDEFINITE-QUANTITY	<p>An indefinite-delivery contract type, also known as a task-order contract, used to acquire services/supplies when the exact times and/or exact quantities of future requirements/deliveries are not known at the time of contract award.</p> <p>A type of indefinite-delivery contract that provides for an indefinite quantity, within stated limits, of supplies or services during a fixed period, and is used to acquire supplies or services when the exact times or exact quantities of future deliveries are not known at the time of contract award. The indefinite-quantity mechanism in TOSC permits ordering of supplies or services after requirements materialize via the issuance of delivery or task orders.</p>
“IN ACCORDANCE WITH”	The contractor shall comply with all aspects (requirements, guidelines, specifications, etc) of the associated compliance document.
IN-SITU	In place
INSTITUTION	KSC organizations (Government or contractor), other than TOSC, providing support services and infrastructure (Government-Furnished Services).
INTEGRATED PROCESSING	Critical path ground operations starting with assembly of the flight vehicle elements through vehicle launch.
INTEGRATED TESTING	End-to-end testing performed upon completion of flight system assembly to verify all ground-to-flight and flight-to-flight system

	interfaces and functions.
INTEGRATED VEHICLE	The point at which any two or more major flight elements are joined. The state of the vehicle after all elements are assembled per mission requirements.
INTERFACE VERIFICATION TEST	Tests to verify interface design requirements and validate functionality between elements (flight to flight, flight to ground, and ground to ground).
ISS VEHICLE SUSTAINING CONTRACT	JSC contract (NAS15-10000 or follow-on) with responsibility and accountability of ISS equipment
IT RESOURCES	Any hardware or software or interconnected system or subsystem of equipment that is used to process, manage access or store electronic information.
INTERNATIONAL PARTNER	A foreign agency that designed, developed and is operating ISS hardware. The International Partners/Participants are Roscosmos (Russian Federal Space Agency), Canadian Space Agency (CSA), Japan Aerospace Exploration Agency (JAXA), and European Space Agency (ESA). Italy and Brazil also have agreements with NASA.
INTERNATIONAL SPACE STATION RESEARCH	Project level funding for a subcategory of small payloads, experiments and hardware developed by Ames Research Center, Glen Research Center, Marshall Space Flight Center and KSC.
KENNEDY DATA CENTER	A central facility that contains a number of computers that host IT applications. Typically, this type of facility has redundant power, air conditioning, and network connections.
KIT/KITTING	An assembly, or act of assembling, of hardware, equipment, or consumables placed in suitable containers for control and issue.
LAUNCH TEAM	The launch team, composed of both Government and contractor personnel, is responsible for the test, checkout and monitoring of the flight hardware and ground systems during countdown to ensure all system parameters meet the criteria to launch.
LEAD FACILITY INTEGRATOR	Organization responsible for integrating and coordinating activities within the facility
LEGACY SYSTEMS	Systems inherited from previous Programs.
LIFE CYCLE	Generic term covering all phases of acquisition, operation, and support of an item, beginning with the concept definition and continuing through disposal of the item.
MAINTAIN (Documentation)	The process of ensuring that a document is configuration-controlled and current.
MAINTAIN/ MAINTENANCE (Systems and Equipment)	The recurring work required to preserve systems, structures, GSE, and collateral equipment in a condition that they may be used for their designated purpose over an intended service life.
MAINTAINABILITY	The measure of the ability of an item to be retained in, or restored to, a

	specified condition when maintenance is performed. A design and operating characteristic that permits hardware to be serviced, inspected, and repaired with a minimum expenditure of maintenance resources.
MAJOR SUBCONTRACTOR	A subcontractor providing support during the contract performance period with a total subcontract value greater than or equal to \$50,000,000.
MANAGEMENT INFORMATION SYSTEM(S)	A computer-based system, consisting of a system or multiple systems that provide tools for generating, organizing, evaluating, and efficiently managing and integrating electronic information.
MATERIAL	Property that may be consumed or expended during the performance of a contract, component parts of a higher assembly, or items that lose their individual identity through incorporation into an end-item. Material does not include equipment, special tooling, and special test equipment.
MISHAP	An unplanned event involving (or potentially involving) injury or death to personnel, damage to or loss of property, or mission failure; fully defined in NPR 8621.1.
MISSION	The performance of a coherent set of operations to achieve program goals.
MISSION ASSURANCE	Activities or the performance of activities which provide increased confidence that the requirements, processes, and standards for a mission are being fulfilled.
MISSION DIRECT	Activities or the performance of activities entirely attributable to a mission.
NASA-MANAGED PROJECT	Any project where the Government has the overall management responsibility.
NASA-MANAGED OPERATION	An operation where NASA personnel lead the operation and conduct the work procedure, but contractor personnel perform the work.
NONCONFORMANCE	A condition of any article, item, part, supplies, product, material or service in which one or more characteristics do not conform to requirements specified in the contract, drawings, specifications or other approved product description. Includes failures, discrepancies, defects and malfunctions.
NON-MISSION DIRECT	Activities or the performance of activities not entirely attributable to a mission.
OFFLINE OPERATIONS/ PROCESSING	Non-critical path processing activities that occur prior to integration of the vehicle flight components. It also includes processing activities that take place following launch, such as recovery, post-flight processing, refurbishment, ground system, and turnaround operations.
OFFLINE LABORATORY SPACE	Non-processing area physical space that has been specifically constructed and equipped for testing, research, and experimentation.

OPERATIONS, MAINTENANCE, ENGINEERING, USER MATRIX	Matrix that defines NASA KSC processing systems and equipment and the associated Operations, Maintenance, sustaining Engineering, User (OMEU) responsibilities of contractors and Government.
OPERATIONS AND MAINTENANCE REQUIREMENTS SPECIFICATION DOCUMENT	The single authoritative source for Space Station for non-drawing organizational level operations, maintenance, data and analysis requirements and specifications.
ORBITAL REPLACEMENT UNIT	Any assembly that can be removed and replaced as a unit from the system on orbit when the unit either passes its design life or fails.
ORION	NASA's Multi-Purpose Crew Vehicle designation.
OUTAGE	A stoppage or interruption of service due to the shutdown or test of a utility, equipment, or a support facility that will affect the continued operations of systems, facilities, or functions. Categorized as scheduled (a planned outage which allows time for determining impact to affected contractors and systems) or unscheduled (when a system or piece of equipment becomes inoperative unexpectedly).
PAYLOAD CUSTOMER	The organization responsible for overall design, fabrication, integration, and operation of the payload. Assumed to include such people as program managers, payload developers, and principal investigators.
“PER”	See "In Accordance With"
PERSONAL PROPERTY	Property of any kind including equipment, materials, and supplies; property in transit in Government conveyances or common carriers; storage for stock or disposal; undergoing maintenance, repair, modification or service test; acquired by donations or any other method. Excludes real property.
PHASE-IN	Period of time from contract award date to contract effective start date.
PORTABLE EQUIPMENT, PAYLOADS AND CARGO	All pressurized ORUs, payloads, cargo, science and Flight Crew Equipment (FCE) transported to and from the International Space Station (ISS) and for other missions. PEPC is installed inside the CM. “PEPC” and “FCE” are used interchangeably.
PRESSURANT	An inert gas that is used to pressurize a pressure vessel prior to loading it with the mission commodity.
PRESSURE SYSTEM	An assembly of components under pressure, including vessels, piping, valves, pumps, relief devices, expansion joints, and gauges.
PRESSURE VESSEL	Any vessel used for storage or handling of gas or liquid under positive pressure, including components of systems.
PROBLEM	Any nonconformance or anomaly (e.g., failure, unsatisfactory condition, unexplained anomaly, or suspect condition) on design, project or operational hardware, software, facilities, systems, procedures, or processes.
PROBLEM REPORTING,	A system (may exist at both the project and program levels) for

ANALYSIS & CORRECTIVE ACTION	identifying, reporting, analyzing for cause, remediating, and preventing recurrence of problems on critical and mission essential systems.
PROGRAM	A strategic investment by a Mission Directorate or Mission Support Office that has a defined architecture, technical approach, requirements, funding level, and a management structure that initiates and directs one or more projects. A program defines a strategic direction that the Agency has identified as critical.
PROGRAM MILESTONE	A designated point in flight or ground hardware development and processing, uniquely defined by each NASA Program, in which a set of critical objectives has been completed.
PROGRAM PLAN	The document that establishes the program's baseline for implementation, signed by the Mission Directorate Associate Administrator, Center Director(s), and Program Manager.
PROJECT	A specific investment identified in a Program Plan having defined requirements, a life cycle cost, a beginning, and an end. A project yields new or revised products and services that directly address NASA's strategic needs. A project also has a management structure and may have interfaces to other projects, agencies, and international partners.
READY TO PRODUCE	The preservation and maintenance of the lab or shop technical infrastructure base at a sufficient level to respond to customer-funded requirements. This includes administration and management of the lab or shop, ensuring that software licenses, hardware, maintenance and calibrations are kept up to date, consumables are procured and available, and technical skills are ready to provide basic lab or shop services.
REAL PROPERTY	Land, buildings, structures, utilities, systems, improvements, and appurtenances thereto permanently annexed to land. Includes the collateral equipment or systems.
RECEIVE/ RECEIVING	Includes documentation transfer and receiving inspections to identify and annotate any damage or abnormalities that may have occurred during transit from one facility or site to another.
RECORDS	Documentary materials, regardless of physical form or characteristics, made or received by an agency of the United States Government under Federal law or in connection with the transaction of public business and preserved or appropriate for preservation by that agency or its legitimate successor as evidence of the organization, functions, policies, decisions, procedures, operations, or other activities of the Government or because of the informational value of data in them. Library and museum material made or acquired and preserved solely for reference or exhibition purposes, extra copies of documents preserved only for convenience of reference and stocks of publications and of processed documents are not included.
RECOVERY	Post-landing activities including safing, retrieval of flight hardware,

	flight crew egress, turnover of critical cargo, and transportation to a de-servicing site.
RECYCLE (Launch recycle)	Initial safing and securing of the launch vehicle, spacecraft and ground systems immediately following a launch countdown termination; configures the flight elements and launch control systems for troubleshooting and corrective action, or defines flight and ground system reconfigurations in order to resume launch countdown.
REFERENCE	Provided for background or information.
RELIABILITY	The probability that an item, system, subsystem, component, or part will perform the intended and required function under specified conditions at a designated time for a specified interval.
REPRESENTED	The personnel that are members of a Bargaining Unit or Union.
RIDE-OUT TEAM	Essential personnel, both contractor and Government, with special skills, who have volunteered to remain on site to ride-out a hurricane or tropical storm to keep mission essential systems and infrastructure up and running, as well as protect flight hardware and flight vehicles.
RISK	The probability, severity, and uncertainties of experiencing an undesired event.
RISK ASSESSMENT	An engineering or operational analysis which identifies, safety, technical, schedule or cost risks, and associated consequences and likelihood.
RISK REVIEW BOARD	A board that reviews issues with potential safety, technical, schedule, and cost risk, whose chairperson makes recommendations to the appropriate authority.
ROOT CAUSE	The underlying reason for one or more nonconformances or deficiencies identified by analysis, investigation or studies which, when corrected, will prevent recurrence of the same or similar nonconformances and deficiencies.
ROUGH ORDER OF MAGNITUDE	A high-level preliminary cost estimate for a project or task.
SAFETY CRITICAL ITEM	A part, equipment, or assembly which contains a characteristic whose failure, malfunction, or absence could cause a catastrophic or critical failure resulting in the loss of or serious damage to the spacecraft or vehicle, an unacceptable risk of personal injury, or loss of life.
SAFING	The process of eliminating unsafe, potentially hazardous, conditions to prevent damage to equipment, hardware, or facilities and injury or death to personnel. Actions include relieving pressurized or potential energy systems, de-energizing electrical systems, removing hazardous commodities, removing explosive devices, and removing and/or decontaminating equipment exposed to hazardous commodities.
SATELLITE ACCUMULATION AREA	An area located in a workplace or facility where hazardous items, chemicals, waste are controlled until removed by the responsible

	contractor.
SENSITIVE INFORMATION	Unclassified information that requires protection due to the risk and magnitude of loss or harm that could result from the inadvertent or deliberate disclosure, alteration, or destruction of information. This includes information for which improper use or disclosure could adversely affect the ability of an agency to accomplish its mission, proprietary information, records about individuals requiring protection under the Privacy Act, and information not releasable under the Freedom of Information Act. This is not the same as the National Security Agency (NSA) term “Sensitive, But Unclassified Information.”
SERVICING	The process of preparing for and loading of fluids and gases into spacecraft, launch vehicles.
SPACEPORT SERVICES	Spaceport Services (reference PWS Section 8) enables access to TOSC services, capabilities and expertise, and provides a mechanism for the Government to accommodate future NASA requirements using IDIQ task orders. NASA requirements can include support to NASA programs, commercial entities, and other government agencies. This section may be used to fulfill NASA requirements in other agreements (e.g., Space Act Agreement, Commercial Space Launch Act agreement).
SPECIAL TEST EQUIPMENT	Either single or multipurpose integrated test units engineered, designed, fabricated, or modified to accomplish special purpose testing.
STANDALONE OPERATIONS	Processing operations that are not in the critical-path and can be accomplished any time prior to integration.
SUPPORTABILITY ASSESSMENT	A wide range of related analyses that are conducted within the systems engineering process to ensure that supportability is included as a system performance requirement, ensure that the system is concurrently developed or acquired with the optimal support system and infrastructure, and to ensure continuous supportability throughout the lifecycle of a system. Examples include commonality and standardization analyzes, repair level analysis, life cycle cost analysis.
SURVIVABILITY	Sustaining engineering and maintenance activities (e.g., like-item replacement, modifications, and analyzes) associated with extending the service life of aging systems.
SYSTEM	The combination of components, assemblies, equipment and/or processes that work together to perform a function. Includes all hardware, software, equipment, facilities, personnel, processes and procedures needed for this purpose.
SYSTEM ASSURANCE ANALYSIS	A documented, integrated reliability and safety analysis that combines criticality assessment, Failure Modes and Effects Analysis, Single Failure Point Analysis, Critical Items List, and Hazard Analysis.
TEAMING ARRANGEMENT	See FAR 9.601. Two or more companies form a partnership or joint venture to act as a prime contractor (offeror) and/or a prime contractor (offeror) agrees with one or more other companies to have them act as

	its subcontractors.
TRANSITION AND RETIREMENT	Refers to Space Shuttle Program (SSP) and the International Space Station Program (ISSP) closeout activities.
TRAVELED WORK	Work being performed at KSC that was originally planned for performance before delivery to KSC, but was not completed.
UNIVERSAL DOCUMENTATION SYSTEM	The Universal Documentation System (UDS) is the mechanism used for formally documenting a requesting agency's program support requirements and the supporting agency's response, including capabilities and commitments to support those requirements.
UTILIZATION PAYLOADS	A collection of equipment (hardware, software, specimens, etc.) and associated processes that are used to achieve specific scientific, technological, or commercial objectives. The scientific research and development components being flown on a particular mission, within or on a payload managed out of the JSC Payloads Office.
USER PRIVILEGES	Authorization given to enable use of full functionality of systems and tools.
VALIDATION	The evaluation process that proves a system meets the operational requirements of the user. Is performed through a combination of test, analysis, demonstrations, and inspection.
VERIFICATION	Proof of system compliance with design solution specifications and descriptive documents. Is performed through a combination of test, analysis, demonstration, and inspection.
WORK YEAR EQUIVALENT	The total productive labor hours in a year that a full time contractor employee could be expected to be available for work, excluding non-productive time (e.g., holidays and leave).
WORK FOR OTHERS	Work performed for and paid by others via a separate agreement between the TOSC contractor and the others. "Others" include, federal, and state agencies, and commercial entities. Refer to contract clause at H.17 for more information.

ACRONYMS

Acronym	Description
21CGS	21st Century Ground Systems (Replaced by GSDO)
45 SW	45th Space Wing
ABRS	Advanced Biological Research System
ACA	Associate Contractor Agreement
ACBM	Asbestos-Containing Building Materials
ACES	Agency Consolidated End-user Services
ACO	Administrative Contracting Officer
ADA	Americans with Disabilities Act
ADP	Acceptance Data Package
ANSI	American National Standards Institute
AOE	Area(s) of Emphasis
ARF	Assembly and Refurbishment Facility
ARIS	Active Rack Isolation System
ASM	Acquisition Strategy Meeting
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing Materials
ATV	Autonomous Transfer Vehicle (also Automated Transfer Vehicle)
BCDU	Battery Charge Discharge Unit
BCM	Basic Cost Model
BEA	Bilateral Exchange Agreements
BOE	Basis Of Estimate
BRIC	Biological Research In Canisters
CAD	Computer-Aided Design
CAE	Computer-Aided Engineering
CAPPS	Checkout Assembly and Payload Processing Services
CAS	Cost Accounting Standards
CBA	Collective Bargaining Agreement
CBL	Contractor Bill of Lading
CCAFS	Cape Canaveral Air Force Station
CCB	Configuration Control Board
CCS	Center Chief of Security

CCW	Cost Control Weight
CDR	Critical Design Review
CEA	Center Export Administrator
CEF	COMSEC Equipment Facility
CEIT	Crew Equipment Interface Test
CEMP	Comprehensive Emergency Management Plan
CER	Cost Estimating Relationships
CES	Cost Control Evaluation Score
CFO	Chief Financial Officer
CFR	Code of Federal Regulations
CG	Center of Gravity
CHATS	Contractor-Held Asset Tracking System
CI	Configuration Item
CI	Counterintelligence
CIL	Critical Items List
CLIN	Contract Line Item Number
CM	Configuration Management
CM	Crew Module
CMDS	Command, Monitor and Data System
CO	Contracting Officer
CoF	Construction of Facilities
COF/EMS	Central Operations Facility/Enterprise Management System
CoFR	Certification of Flight Readiness
COL-EPF	Columbus-External Payload Facility
COMSEC	Communications Security
COOP	Continuity of Operations Plan
COPV	Composite Overwrapped Pressure Vessel
COTR	Contracting Officer's Technical Representative
COTS	Commercial Off-The-Shelf
CR	Change Request
CRF	Canister Rotation Facility
CRS	Commercial Resupply Service
CSA	Configuration Status and Accounting

CSM	Crew Service Module
CSP	Cooperative and State Program
CT	Counterterrorism
CV	Contract Value
DART	Damage Assessment and Recovery Team
DCAA	Defense Contract Audit Agency
DCMA	Defense Contract Management Agency
DCR	Design Certification Review
DFO	Design For Operability
DFUM	Directorate Facility Utilization Manager
DHS	Department of Homeland Security
DIMS	Digital Imagery Management System
DoD	Department of Defense
DOT	Department Of Transportation
DR	Data Requirement
DRA	Document Release Authorization
DRL	Data Requirements List
E3, E³	Electromagnetic Environmental Effects
e533	e533 Flat File (DR 1.2-6)
EAC	Estimate at Completion
EAR	Export Administration Regulations
ECP	Export Control Plan
ELC	Express Logistics Carrier
EMC	Electromagnetic Compatibility
EME	Electromagnetic Effects
EMI	Electromagnetic Interference
EMP	Emergency Management Plan
EMS	Emergency Medical System
EMS	Environmental Management System
EO	Executive Order
ESC	Engineering Support Contract
ESD	Exploration Systems Development Directorate
EXPRESS	EXpedite the PROcessing of Experiments to the Space Station

FAR	Federal Acquisition Regulation
FAST	Federal Automotive Statistical Tool
FCE	Flight Crew Equipment
FDO	Fee Determining Official
FHRC	Flex Hose Rotary Coupler
FICA	Federal Insurance Contribution Act
FISMA	Federal Information Security Management Act
FMD	Financial Management Division
FMEA	Failure Modes and Effects Analyses
FMEA/CIL	Failure Modes and Effects Analyses - Critical Item List
FOD	Foreign Object Debris
FPRA	Forward Price Rate Agreement
FRAM	Flight Release Attach Mechanism
FSE	Flight Support Equipment
FSEU	Facilities, Systems, Equipment, and Utilities
FSUA	Facility Space Utilization Application
FUO	Facility Utilization Officer
G&A	General and Administrative
GACU	Ground Air Conditioning Unit
GAO	Government Accountability Office
GFC	Government-Furnished Commodities
GFF	Government-Furnished Facilities
GFLIT	Government-Furnished Legacy IT Systems
GFI	Government Furnished Information
GFS	Government-Furnished Services
GFE	Government Furnished Equipment
GFP	Government-Furnished Property
GFY	Government Fiscal Year
GIDEP	Government/Industry Data Exchange Program
GOLD	Government On-Line Database
GOTS	Government Off-The-Shelf
GP	General Publication
GPD	Ground Processing Directorate

GS	Ground Systems
GSA	General Services Administration
GSDO	Ground Systems Development and Operations (Formerly known as 21CGS)
GSE	Ground Support Equipment
GSI	Government Source Inspection
HA	Hazard Analyses
HEO	Human Exploration and Operations Mission Directorate
HRFF	Hardware Ready For Flight
HTV	H II Transfer Vehicle (JAXA)
IAR	Information Act Request
IAW	in accordance with
ICAS	Institutional Computerized Archival System
ICD	Interface Control Document
IDIQ	Indefinite-Delivery/Indefinite-Quantity
IFA	In-Flight Anomaly
ILSP	Integrated Logistics Support Plan
IMCS	Information Management and Communication Support Contract
IMS	Information Management System
IMS	Inventory Management System
IPO	Industrial Property Officer
ISC	Institutional Service Contract
ISIS	International Subrack Interface Standard
ISO	International Organization for Standardization
ISPR	International Standard Payload Racks
ISR	Individual Subcontracting Report
ISS	International Space Station
ISSP	International Space Station Program
ISS-R	International Space Station Research
IT	Information Technology
ITAR	International Traffic in Arms Regulations
ITSSP	Information Technology System Security Plan
IVT	Interface Verification Test
IWG	Imagery Working Group

JAXA	Japan Aerospace Exploration Agency
JEM-EPF	Japanese Experiment Module-External Payload Facility
JSC	NASA's Johnson Space Center, Texas
KCA	Kennedy Customer Agreement
KCCS	Kennedy Complex Control System
KDC	Kennedy Data Center
KDP	Kennedy Documented Procedure
KFT	Kennedy Space Center (KSC) Fixation Tube
KGCS	Kennedy Ground Control System
KISS	Kennedy Institutional Support Services
KNPD	Kennedy NASA Policy Directive
KNPR	Kennedy NASA Procedural Requirement
KSC	NASA's Kennedy Space Center, Florida
KSC-PSM	KSC Pressure Systems Manager
LA	Local Authority
LAFP	Local Authority Facilities Project
LAS	Launch Abort System
LC	Labor Categories
LC	Launch Complex
LC-39	Launch Complex 39 at KSC
LCC	Launch Control Center
LES	Launch Equipment Shop
LH₂, LH2	Liquid Hydrogen
LHe	Liquid Helium
LIVIS/CWLIS	Lightning Induced Voltage Instrumentation System/Catenary Wire Lightning Instrumentation Systems
LOE	Level of Effort
LON	Launch On Need
LOX	Liquid Oxygen
LRU	Line Replaceable Unit
LSA	Logistics Support Analyses
LSP	Launch Services Program
MESC	Medical and Environmental Support Contract
MIM	Multi-Increment Manifest

MIS	Management Information System
ML	Mobile Launcher
MLE	Middeck Locker Equivalents
MLP	Mobile Launcher Platform
MMH	Monomethyl Hydrazine
MOA	Memorandum of Agreement
MOSB	Multi-Operations Support Building
MOU	Memorandum of Understanding
MPCV	Multi-Purpose Crew Vehicle (Previously : Orion CxP Crew Exploration Vehicle - CEV)
MPPF	Multi-Purpose Processing Facility
MRB	Material Review Board
MSFC	Marshall Space Flight Center
N-Prop	NASA Property Management System
NAC	National Agency Check
NACI	National Agency Check with Inquiries
NAICS	North American Industry Classification System
NASA	National Aeronautics and Space Administration
NDE	Non-Destructive Evaluation
NDT	Non-Destructive Testing
NEC	Negotiated Estimated Cost
NESS	NF 1018 Electronic Submission System
NF	NASA Form
NFS	NASA FAR Supplement
NH₃, NH3	Ammonia
NIST	National Institute of Standards and Technology
NITR	NASA Information Technology Requirements
NORS	Nitrogen/Oxygen Recharge System
NPD	NASA Policy Directive
NPR	NASA Procedural Requirement
NRC	Nuclear Regulatory Commission
NSSC	NASA Shared Services Center
NSSD	NASA Spacecraft Services Depot
NSTS	National Space Transportation System

NTE	Not To Exceed
O&C	Operations and Checkout Building
O&M	Operations & Maintenance
O&SHA	Operating and Support Hazard Analysis
OCD	Operational Concepts Document
OCE	Other Cost Elements
OD	Operations Directives
ODC	Other Direct Costs
OEM	Original Equipment Manufacturer
OFCCP	Office of Federal Contract Compliance Program
OHF	Occupational Health Facility
OI	Organization Issuances
OMB	Office of Management and Budget
OMEU	Operations, Maintenance, sustaining Engineering, User
OMRS	Operational Maintenance Requirements Specification
OPM	Office of Personnel Management
OPR	Office of Primary Responsibility
OPS	Operations
OR	Operational Requirements
ORCA	Online Representations and Certifications Application
ORD	Operational Readiness Date
ORR	Operational Readiness Review
ORU	Orbital Replacement Unit
OSHA	Occupational Safety and Health Administration
OT	Over Time
PAFB	Patrick Air Force Base
PDF	Adobe Portable Document File
PDFU	Petri Dish Fixation Unit
PDO	Property Disposal Officer
PDR	Preliminary Design Review
PEPC	Portable Equipment, Payloads and Cargo
PES	Performance Evaluation Score
PHSF	Payload Hazardous Servicing Facility

PI	Principal Investigator
PIN	Personnel Identification Number
PIP	Personnel Investigative Processing
PIV	Personal Identification Verification
PKI	Public Key Infrastructure
PMP	Program Management Plan
PMRB	Primary Material Review Board
POL	Petroleum, Oils, and Lubricants
PP&E	Property, Plant and Equipment
PPBE	Planning, Programming, Budgeting and Execution
PRACA	Problem Reporting, Analysis and Corrective Action
PRB	Post Retirement Benefits
PRCU	Payload Rack Checkout Unit
PRD	Program Requirements Document
PSM	Pressure Systems Manager
PSP	Payload Support Plan
PTIM	Porous Tube Insert Module
PVS	Pressure Vessel System
PWS	Performance Work Statement
QMS	Quality Management Systems
R&F	Rates and Factors
RAC	Risk Assessment Code
RF	Radio Frequency
RID	Review Item Discrepancy
RIDM	Risk Informed Decision Making
RMS	Risk Management System
ROM	Rough Order of Magnitude
RP	Real Property
RPO	Real Property Officer
RPSF	Rotation, Processing and Surge Facility
RRMF	Recycle, Reutilization, and Marketing Facility
RSA	Russian Space Agency
RSCS	Range Safety Checkout Subsystem

RSI	Real-time Simulation Interface
RSP	Resupply Stowage Platform
RSR	Resupply Stowage Racks
RTG	Radioisotope Thermoelectric Generator
RTP	Ready To Produce
RVM	Requirements Verification Management
RVMP	Requirements Verification Management Plan
S&MA	Safety and Mission Assurance
SAA	System Assurance Analysis
SAE	Society of Automotive Engineers
SATERN	System for Administration, Training, and Education Resources for NASA
SBU	Sensitive But Unclassified
SCA	Service Contract Act
SCA	System Criticality Analysis
SCAPE	Self-Contained Atmospheric Protective Ensemble
SDL	System Documentation List
SDS	Shuttle Drawing System
SLC	Standard Labor Categories
SLF	Shuttle Landing Facility
SLS	Space Launch System
SLSL	Space Life Sciences Laboratory
SM	Service Module
SMA	Safety and Mission Assurance
SMD	Science Mission Directorate
SPOC	Space Program Operations Contract
SRB	Solid Rocket Booster
SRD	System Requirements Document
SRP	Standard Repair Procedure
SRR	System Requirements Review
SRS	Support Request System
SSE	Software Safety Engineer
SSLM	Solid State Luminare Module
SSP	Space Shuttle Program

SSPF	Space Station Processing Facility
STD	Standard
STE	Secure Terminal Equipment
STU	Secure Telephone Unit
SW	Space Wing
T&R	Transition and Retirement
TBD	To Be Determined
TDP	Testing Designed Positions
TDY	Temporary Duty
TICS	Tool Inventory Control System
TIM	Technical Interchange Meeting
TMR	Technical Management Representative
TOSC	Test and Operations Support Contract
TPFS	Technical Performance Factor Score
TPFW	Technical Performance Factor Weight
TPSF	Thermal Protection System Facility
TRI	Toxic Release Inventory
TSP	Thrift Savings Plan
UDS	Universal Documentation System
UTA	Utility Transfer Assembly
V&V	Verification and Validation
VAB	Vehicle Assembly Building
VPP	Voluntary Protection Program
WARN	Workforce Adjustment and Retraining Notification
WBS	Work Breakdown Structure
WG	Working Group
WIP	Work In Progress
WLI	WorkLoad Indicators
WPES	Weighted Performance Evaluation Score
WVPR	Workforce Violence Prevention and Response
WYE	Work Year Equivalent